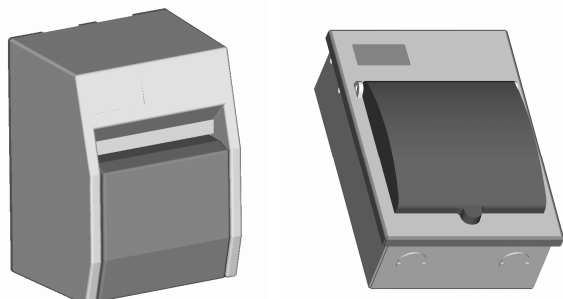


Crabtree

STARBREAKER



INSULATED

4 Module Enclosure

To complete this installation you will need
 -Main switch (63A or 40A) or RCCB (63A or 40A)

-MCBs

NOTE- Only Crabtree Starbreaker range MCBs, RCCBs and main switches must be used within the Crabtree Starbreaker range of units.

Important Information

This unit should be installed by a qualified competent person in accordance with all relevant legislation and regulations including building regulations and wiring regulations BS7671. If in doubt contact a qualified competent person

The total current supplied by the unit must not exceed the rating of the incoming main switch or RCCB. (63A Max.)

The total sum of the individual MCB ratings may exceed this value where there is appropriate diversity on the installation

This product is suitable for indoor use only and is rated at IP20C.

The consumer unit and associated components have been type tested to the following specifications:

Consumer unit	BSEN60439-3 1991
MCBs	BSEN60898: 1991–Type B or C
RCCBs	BSEN61008-1: 1995
Main switch	BSEN60947-3: 1992

Ambient Temperature Considerations

The Starbreaker MCBs are calibrated to meet the requirements of BSEN60898, 30°C Ref Calibration Temperature. At other temperatures the following rating factors should be used.

At 0° C use 1.1
At 20° C use 1.0
At 60° C use 0.9

Adjacent thermal magnetic MCBs should not be loaded continuously at or near their nominal rated currents when mounted in the enclosure. We recommend an 80% diversity factor is applied to the MCB nominal rated current where it is intended to load the MCBs continuously (in excess of 1 hour).

Terminal Capacities

Device	Max cable Capacity	Recommended tightening torque
Main switch / RCCB	50mm ²	2.3Nm (20 lbf-in)
MCB	16mm ²	1.7Nm (15 lbf-in)
Earth & neutral terminals	16mm ²	1.7Nm (15 lbf-in)

Use No.2 Pozidrive bit

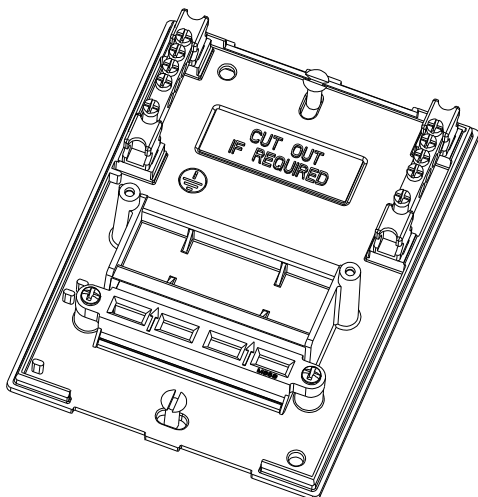
DO NOT connect using power driven screwdrivers

Continued

1. Enclosure Mounting

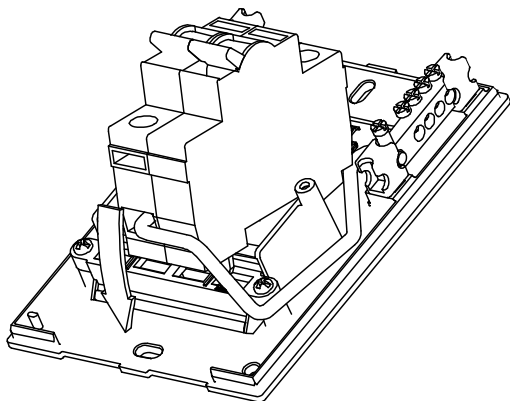
Use a knife to remove the back cutout if required for rear cable entry on insulated unit. On metal units knockouts are only provided on the base.

Fix base to wall using screws as shown. (Note the alternative fixing holes.)



2. Assemble main switch or RCCB.

Loosen the neutral link by undoing the terminal bar screw and assemble as shown. Tighten both connections to the link. (See front page for recommendations)



General principals shown in the diagrams apply to both insulated and metal units.

3. Fit required MCBs

4. Route all incoming and outgoing cables.

On insulated units cutouts are provided on the inside of the cover for cable entry.

On metal units knockouts are only provided on the base.

5. Control Devices.

Such as timers and contactors can be fitted. The incoming supply for the device must be fed from a suitable MCB and no attempt should be made to connect the device to the busbar.

Detailed installation instructions are supplied with all Crabtree control devices.

6. Check the tightness of all screw connections, including factory made connections. (See front page for recommendations)

7. Fit cover.

Note that aperture can be enlarged to allow for 2 outgoing ways by removing cutout (insulated unit only)

8. Circuit Identification.

The consumer unit way label is supplied with the consumer unit. This should be fitted above the circuit devices on the front cover.

Preprinted labels are provided to identify the outgoing circuits.

9. Testing of the installation.

After completion it is essential that the installation be tested in accordance with the IEE Wiring Regulations (BS7671).

It is important that the following are included in the above

- Operation of the test button on any RCCB fitted.
- Verification that the earth loop impedance requirements are satisfied.

The Crabtree logo, featuring a stylized wave symbol to the left of the word "Crabtree" in a bold, sans-serif font.

Electrium Sales Limited, Walkmill Lane, Cannock, WS11 0XE, England

Tel: 01543 455000

Fax: 01543 455001

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